

Received date: 10/05/2006



DFW

Docket No.: 29137.183.00-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION: **YOON, Sung Cheol, et al.**

GROUP ART UNIT: Not Yet Assigned

SERIAL NUMBER: 10/585,358

EXAMINER: Not Yet Assigned

FILED: July 6, 2006

**FOR: METHOD OF PRODUCING CYCLIC OLEFIN POLYMERS HAVING POLAR
FUNCTIONAL GROUPS, OLEFIN POLYMER PRODUCED USING THE METHOD
AND OPTICAL ANISOTROPIC FILM COMPRISING THE SAME**

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The Applicant(s) wish to make of record the references listed on the attached PTO/ SB/08. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR § 1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending applications or issued patents which may be related to the present application. A copy of the patent(s) is attached along with PTO/ SB/08.
- ☐ A check is attached in the amount required under 37 CFR § 1.17(p).

CERTIFICATION

The undersigned certifies that

- ☐ each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this statement.

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PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR § 1.17(i)(1).

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account No. 50-0911. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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PTO/SB/08a/b (05-03)
Approved for use through 05/31/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/585,358
				Filing Date	July 6, 2006
				First Named Inventor	YOON, Sung Cheol
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	29137.183.00-US
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	3,330,815	07-11-1967	McKeon et al.	
	AB	5,705,503	01-06-1998	Goodall et al.	
	AC	6,350,832 B1	02-26-2002	Bell et al.	
	AD	6,455,650 B1	09-24-2002	Lipian et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	DE 109224 (w/Abstract)	03-14-1900	GROUVELLE ET AL.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CA	Kaminsky, W., et al., Polymerization of Propene and Butene with a Chiral Zirconocene and Methylalumoxane as Cocatalyst, Agnew Chem. Int. Ed. Engl 24 (1985) No. 6, pp. 507-508		
	CB	Ittel, S.D., et al., Late-Metal Catalysts for Ethylene Homo- and Copolymerization, American Chemical Society, 2000, pp. 1169-1203		
	CC	Resconi, L., et al., Selectivity in Propene Polymerization with Metallocene Catalysts, American Chemical Society, 2000, pp. 1253-1345		
	CD	Gaylord, N. G., et al., Poly-2,3- and 2,7-Bicyclo[2.2.1]hept-2-ene: Preparation and Structures of Polynorbornenes, Marcel Dekker, Inc., 1977, pp. 1053-1070		
	CE	Sen, A., et al., Catalysis by Solvated Transition-Metal Cations. Novel Catalytic Transformations of Alkenes by Tetrakis (acetonitrile) palladium Ditetrafluoroborate. Evidence for the Formation of Incipient Carbonium Ions as Intermediates, American Chemical Society, 1981, pp. 4627-4629		
	CF	Kaminsky, W., et al., Polymerization with Cyclic Olefins with Homogeneous Catalysts, Institut für Anorganische und Angewandte Chemie, pp		
	CG	Arndt, M., et al., Microstructure of Poly(cycloolefins) Produced by Metallocene/ Methylaluminoxane (mao) Catalysts, Institut für Technische und Makromolekulare Chemie, 1995, pp. 225-246		
	CH	Ivin, K.J., The ¹³ C NMR Spectra of Ring-opened Copolymers of Cyclopentene and Norbornene; Reactivity Ratios, Dept. of Chemistry, The Queen's University of Belfast, 1979, pp. 1975-1988		
	CI	Hennis, A. D., Novel, Efficient, Palladium-Based System for the Polymerization of Norbornene Derivatives: Scope and Mechanism, American Chemical Society, 2001 pp. 2802-2812		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /FT/

Examiner Signature	/Fred Teskin/	Date Considered	09/23/2009
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